

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/820,477C

Source: IFWP

Date Processed by STIC: 11/9/04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 11/09/2004

PATENT APPLICATION: US/10/820,477C

TIME: 16:37:08

Input Set : A:\SubstituteSequenceListing.txt

Output Set: N:\CRF4\11092004\J820477C.raw

```

3 <110> APPLICANT: Siler-Khodr, Theresa M.
5 <120> TITLE OF INVENTION: Non-Mammalian GnRH Analogs and Uses Thereof in Regulation of,
6   Fertility and Pregnancy
8 <130> FILE REFERENCE: P7345.2(CIP)6
10 <140> CURRENT APPLICATION NUMBER: US 10/820,477C
12 <141> CURRENT FILING DATE: 2004-04-08
14 <150> PRIOR APPLICATION NUMBER: US 10/639,405
16 <151> PRIOR FILING DATE: 2003-08-12
18 <160> NUMBER OF SEQ ID NOS: 16
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 30
22 <212> TYPE: DNA
23 <213> ORGANISM: Gallus gallus (Chicken II GnRH)
25 <400> SEQUENCE: 1
26 cagcactggt cccatggctg gtaccctgga      30
28 <210> SEQ ID NO: 2
29 <211> LENGTH: 10
30 <212> TYPE: PRT
31 <213> ORGANISM: Unknown
33 <220> FEATURE:
34 <221> NAME/KEY: mat_peptide
35 <222> LOCATION: 6
36 <223> OTHER INFORMATION: Chicken II GnRH Analog. MOD_RES substitution of Gly residue
37   at 10 by aza-Gly-NH2, ethylamide or other Gly amide. Xaa represents
38   D-Arg, D-Leu, D-tBu-Ser, or D-Trp. MOD_RES Glu at position 1 is
39   pyroglutamic acid.
41 <400> SEQUENCE: 2
W--> 42 Glu His Trp Ser His Xaa Trp Tyr Pro Gly
43           5              10
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 30
47 <212> TYPE: DNA
48 <213> ORGANISM: Salmo salar (Salmon GnRH)
50 <400> SEQUENCE: 3
51 cagcactggt cttatggctg gctgcctgga      30
53 <210> SEQ ID NO: 4
54 <211> LENGTH: 10
55 <212> TYPE: PRT
56 <213> ORGANISM: Unknown
58 <220> FEATURE:
59 <221> NAME/KEY: mat_peptide
60 <222> LOCATION: 6
61 <223> OTHER INFORMATION: Salmon GnRH Analog. MOD_RES substitution of Gly residue

```

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62 at 10 with aza-Gly-NH<sub>2</sub>, ethylamide or other Gly amide. Xaa represents  
 63 D-Arg. MOD\_RES Glu at position 1 is pyroglutamic acid.  
 65 <400> SEQUENCE: 4  
 W--> 66 Glu His Trp Ser Tyr Xaa Trp Leu Pro Gly  
 67 5 10  
 69 <210> SEQ ID NO: 5  
 70 <211> LENGTH: 10  
 71 <212> TYPE: PRT  
 72 <213> ORGANISM: Homo sapiens (Mammalian GnRH)  
 74 <220> FEATURE:  
 75 <221> NAME/KEY: mat\_peptide  
 76 <222> LOCATION: unknown  
 77 <223> OTHER INFORMATION: MOD\_RES Glu at position 1 is pyroglutamic acid.  
 79 <400> SEQUENCE: 5  
 80 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly  
 81 5 10  
 83 <210> SEQ ID NO: 6  
 84 <211> LENGTH: 10  
 85 <212> TYPE: PRT  
 86 <213> ORGANISM: Gallus gallus (Chicken II GnRH)  
 88 <220> FEATURE:  
 89 <221> NAME/KEY: mat\_peptide  
 90 <222> LOCATION: Within brain MRNA 121-150, within brain gene 2174-2203  
 91 <223> OTHER INFORMATION: MOD\_RES Glu at position 1 is pyroglutamic acid.  
 93 <400> SEQUENCE: 6  
 94 Glu His Trp Ser His Gly Trp Tyr Pro Gly  
 95 5 10  
 97 <210> SEQ ID NO: 7  
 98 <211> LENGTH: 10  
 99 <212> TYPE: PRT  
 100 <213> ORGANISM: Salmo salar (Salmon GnRH)  
 102 <220> FEATURE:  
 103 <221> NAME/KEY: mat\_peptide  
 104 <222> LOCATION: unknown  
 105 <223> OTHER INFORMATION: MOD\_RES Glu at position 1 is pyroglutamic acid  
 107 <400> SEQUENCE: 7  
 108 Glu His Trp Ser Tyr Gly Trp Leu Pro Gly  
 109 5 10  
 110 <210> SEQ ID NO: 8  
 111 <211> LENGTH: 30  
 112 <212> TYPE: RNA  
 113 <213> ORGANISM: Gallus gallus (Chicken II GnRH)  
 116 <400> SEQUENCE: 8  
 117 gucgugacca gggguaccgac caugggaccu 30  
 121 <210> SEQ ID NO: 9  
 122 <211> LENGTH: 30  
 123 <212> TYPE: RNA  
 124 <213> ORGANISM: Salmo salar (Salmon GnRH).  
 126 <400> SEQUENCE: 9

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127 gucgugacca gaauaccgac cgacggaccu 30
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 9
131 <212> TYPE: PRT
132 <213> ORGANISM: Unknown
134 <220> FEATURE:
135 <221> NAME/KEY: mat_peptide
136 <222> LOCATION: 6
137 <223> OTHER INFORMATION: Buserelin. MOD_RES Glu at position 1 is pyroglutamic acid.
138     XAA represents D-Ser (t-Bu). MOD_RES PRO residue at 9 bound to
139     ethylamide.
141 <400> SEQUENCE: 10
W--> 142 Glu His Trp Ser Tyr Xaa Leu Arg Pro
143           5
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 9
147 <212> TYPE: PRT
148 <213> ORGANISM: Unknown
150 <220> FEATURE:
151 <221> NAME/KEY: mat_peptide /
152 <222> LOCATION: 6
153 <223> OTHER INFORMATION: Leuprolide. MOD_RES Glu at position 1 is pyroglutamic acid.
154     XAA represents D-Leu. MOD_RES PRO residue at 9 bound to ethylamide.
156 <400> SEQUENCE: 11
W--> 157 Glu His Trp Ser Tyr Xaa Leu Arg Pro
158           5
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 10
162 <212> TYPE: PRT
163 <213> ORGANISM: Unknown
165 <220> FEATURE:
166 <221> NAME/KEY: mat_peptide /
167 <222> LOCATION: 1,2,3,5,6,8,10 /
168 <223> OTHER INFORMATION: Antide. XAA 1 is Ac-D-Nal, XAA2 is D-Cpa, XAA3 is D-Pal,
XAA5 is NicLys, /
169     XAA6 is D-NicLys, XAA8 is ILys, XAA10 is D-Ala.
173 <400> SEQUENCE: 12
W--> 174 Xaa Xaa Xaa Ser Xaa Xaa Leu Xaa Pro Xaa
175           5           10
177 <210> SEQ ID NO: 13
178 <211> LENGTH: 10
179 <212> TYPE: PRT
180 <213> ORGANISM: Gallus gallus (Chicken I GnRH)
182 <220> FEATURE:
183 <221> NAME/KEY: mat_peptide
184 <222> LOCATION: unknown
185 <223> OTHER INFORMATION: MOD_RES Glu at position 1 is pyroglutamic acid.
187 <400> SEQUENCE: 13
188 Glu His Trp Ser Tyr Gly Leu Gln Pro Gly
189           5           10

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191 <210> SEQ ID NO: 14  
192 <211> LENGTH: 10  
193 <212> TYPE: PRT  
194 <213> ORGANISM: Lampetra genus (Lamprey GnRH)  
196 <220> FEATURE:  
197 <221> NAME/KEY: mat\_peptide  
198 <222> LOCATION: unknown  
199 <223> OTHER INFORMATION: MOD\_RES Glu at position 1 is pyroglutamic acid.  
201 <400> SEQUENCE: 14  
202 Glu His Trp Ser Leu Glu Trp Lys Pro Gly  
203                   5                   10  
205 <210> SEQ ID NO: 15  
206 <211> LENGTH: 30  
207 <212> TYPE: DNA  
208 <213> ORGANISM: Clupea harengus (Herring GnRH)  
210 <400> SEQUENCE: 15  
211 cagcactggg cttatggctg gctgcctgga   30  
213 <210> SEQ ID NO: 16  
214 <211> LENGTH: 10  
215 <212> TYPE: PRT  
216 <213> ORGANISM: Unknown  
218 <220> FEATURE:  
219 <221> NAME/KEY: mat\_peptide  
220 <222> LOCATION: 6  
221 <223> OTHER INFORMATION: Herring GnRH Analog. MOD\_RES substitution of Gly  
222       residue at 10 with aza-Gly-NH2, ethylamide or other Gly  
223       amide. Xaa represents D-Arg. MOD\_RES Glu at position 1 is  
224       pyroglutamic acid.  
226 <400> SEQUENCE: 16  
--> 227 Glu His Trp Ser Tyr Xaa Leu Ser Pro Gly  
228                   5                   10

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/820,477C

DATE: 11/09/2004  
TIME: 16:37:09

Input Set : A:\SubstituteSequenceListing.txt  
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ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the  
uence Listing to ensure that a corresponding explanation is presented in the <220>  
<223> fields of each sequence which presents at least one n or Xaa.

#:2; Xaa Pos. 5

#:4; Xaa Pos. 6

#:10; Xaa Pos. 6

#:11; Xaa Pos. 6

#:12; Xaa Pos. 1, 2, 3, 5, 6, 8, 10

#:16; Xaa Pos. 6

## VERIFICATION SUMMARY

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Input Set : A:\SubstituteSequenceListing.txt

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42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0